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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/026,662
				Filing Date	December 27, 2001
				First Named Inventor	HASSON, Jaime
				Group Art Unit	2661
				Examiner Name	Not yet known
Sheet	1	of	4	Attorney Docket Number	P-4659-US

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
<i>iw</i>	A	5,012,200		Meinzer	04-30-1991	
<i>iw</i>	B	5,862,460		Rich	01-19-1999	
<i>iw</i>	C	5,903,854		Abe et al.	05-11-1999	
<i>iw</i>	D	6,330,455		Ichihara	12-11-2001	
<i>iw</i>	E	5,302,914		Arntz et al.	04-12-1994	
<i>iw</i>	F	6,285,251		Dent et al.	09-04-2001	
<i>iw</i>	G	5,694,093		DaSilva et al.	12-02-1997	
<i>iw</i>	H	5,854,571		Pinckley et al.	12-29-1998	
<i>iw</i>	I	5,872,481		Sevic et al.	02-16-1999	
<i>iw</i>	J	6,133,788		Dent	10-17-2000	
<i>iw</i>	K	6,201,452		Dent et al.	03-13-2001	
<i>iw</i>	L	5,345,189		Hornak et al.	09-06-1994	
<i>iw</i>	M	5,264,807		Okubo et al.	11-23-1993	
<i>iw</i>	N	5,909,643		Alhara	06-01-1999	
<i>iw</i>	O	5,929,702		Myers et al.	09-27-1999	
<i>iw</i>	P	5,758,269		Wu	05-26-1998	
<i>iw</i>	Q	5,786,727		Sigmon	07-28-1998	
<i>iw</i>	R	5,886,575		Long	03-23-1999	
<i>iw</i>	S	5,880,633		Leizerovich et al.	03-09-1999	
<i>iw</i>	T	5,739,723		Sigmon et al.	04-14-1998	

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FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴	Kind Code ⁵ (if known)			
<i>iw</i>	U	WO	99/52206		Dent	10-14-1999	

Examiner Signature	<i>[Signature]</i>	Date Considered	9/27/05
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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MAR 21 2005		TRADEMARK OFFICE		Application Number	
				10/026,662	
				Filing Date	
				December 27, 2001	
				First Named Inventor	
				HASSON, Jaime	
				Group Art Unit	
				2661	
				Examiner Name	
				Not yet known	
Sheet		2		of	
		4		Attorney Docket Number	
				P-4659-US	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	V	5,873,484		Sevic et al.	02-18-1990	<i>Duplicated, see page 1</i>
	W	5,661,434		Brozovich et al.	08-26-1997	
	X	5,420,541		Upton et al.	05-30-1995	
	Y	5,568,094		Bowen et al.	10-22-1996	
	Z	5,548,246		Tamamoto et al.	08-20-1996	
	AA	5,541,554		Stengel et al.	07-30-1996	
	AB	5,724,005		Chen et al.	03-03-1998	
	AC	4,439,744		Kumar et al.	03-27-1984	
	AD	5,621,351		Puri et al.	04-15-1997	
	AE	4,433,312		Kahn	02-21-1984	
	AF	5,974,041		Kornfeld et al.	10-26-1999	
	AG	3,777,275		Cox	12-04-1973	
	AH	6,587,511		Barak et al.	07-01-2003	
	AI	5,901,346		Stengel et al.	05-04-1999	
	AJ	2003/0125065		Hasson et al.	07-03-2003	
	AK	6,825,719		Barak et al.	11-30-2004	
	AL	10/131,750		Barak et al.	04-24-2002 (filing date)	
	AM	5,786,728		Alinikula	07-28-1998	
	AN	6,633,199		Nielsen et al.	10-14-2003	
	AO	6,147,653		Wallace et al.	11-14-2000	
	AP	6,008,703		Perrott et al.	12-28-1999	
	AQ	2003/206056		Hietala	11-06-2003	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
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Examiner Signature		Date Considered	9/27/05
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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/026,662
		Filing Date	December 27, 2001
		First Named Inventor	HASSON, Jaime
		Group Art Unit	2661
(use as many sheets as necessary)		Examiner Name	Not yet known
Sheet	3	of	4
		Attorney Docket Number	P-4659-US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
tw	AR	FREDRICK H. RAAB, "Efficiency of Outphasing RF Power-Amplifier Systems", IEEE Transactions on Communications. Vol. Com-33, No. 10, Oct 1985, pp. 1094-1099	<input type="checkbox"/>
tw	AS	STEVE C. CRIPPS, "RF Power Amplifiers for Wireless Communications", 1999, USA, pp. 219-250	<input type="checkbox"/>
tw	AT	D.C. Cox, "Linear Amplification with Nonlinear Components", IEEE Transaction on Communications, December 1974, pp.1942-1945.	<input type="checkbox"/>
tw	AU	Bob Stengel and William R. Eisenstadt, "LINC Power Amplifier Combiner Method Efficiency Optimization", IEEE Transaction on Vehicular Technology. Vol.49, No. 1, January 2000, pp.229-234	<input type="checkbox"/>
tw	AV	Bob Stengel, "LINC Linear Transmitter Technology Review", Presented at International Microwave Symposium, Boston, MA, June 11, 2000, pp.1-32.	<input type="checkbox"/>
tw	AW	S.A. HETZEL et al., "A LINC Transmitter", University of Bristol, IEEE, 1999, pp. 133-137	<input type="checkbox"/>
tw	AX	S. O. Ampem-Darko, H.S. Al-Raweshidy, "A Novel Technique for Gain/Phase Error Cancellation in LINC Transmitters", 1999 IEEE, pp. 2034-2038	<input type="checkbox"/>
tw	AY	T. A. D. Riley and M. A. Copeland, "A simplified continuous phase modulator technique," IEEE Trans. on circuits and systems, VOL. 41, NO. 5, pp. 321-328, May 1994.	<input type="checkbox"/>

Examiner Signature		Date Considered	9/27/05
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Substitute for form 1449B		MAR 21 2005		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/026,662
				Filing Date	December 27, 2001
				First Named Inventor	HASSON, Jaime
				Group Art Unit	2661
(use as many sheets as necessary)				Examiner Name	Not yet known
Sheet	4	of	4	Attorney Docket Number	P-4659-US


NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
TW	AZ	N. M. Filiol, T. A. D. Riley, C. Plett and M. A. Copeland, "An agile ISM band frequency synthesizer with built-in GMSK data modulation," IEEE Journal of Solid-State Circuits, VOL. 33, NO. 7, pp.998-1008, July 1998.	<input type="checkbox"/>
TW	BA	M. H. Perrot, T. L. Tewksbury III, C. G. Sodini, "A 27-mW CMOS Fractional-N Synthesizer Using Digital Compensation for 2.5-Mb/s GFSK Modulation", IEEE Journal of Solid-State Circuits, VOL. 32, NO. 12, pp.2048-2060, Dec 1997.	<input type="checkbox"/>
BB		T. Yamaji, A. Yasuda, H. Tanimoto, Y. Suzuki, "A Digital-to-RF Converter Architecture Suitable for a Digital-to-RF Direct Conversion Software Defined Radio Transmitter", IEICE Trans. Commun., vol. E83-B, No. 6, pp. 1254-1260, June 2000.	<input type="checkbox"/>
TW	BC	MICHAEL H. PERROTT ET AL., "A Modeling Approach for Σ - Δ Fractional-N Frequency Synthesizers Allowing Straightforward Noise Analysis", IEEE Journal of Solid-State Circuits, Vol. 37, No. 8, August 2002, pp. 1028-1038	<input type="checkbox"/>
TW	BD	M.H. Perrott, "Techniques for High Data Rate modulation and Low Power Operation of Fractional-N Frequency Synthesizers", PH.D Disseration, MIT, September 1997, Retrieved from the Internet, URL:http://www-mtl.mit.edu/{perrott/pages/thesis.pdf/, pp. 1-90	<input type="checkbox"/>
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Examiner Signature		Date Considered	8/27/05
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Substitute for form 1449A/PTO <div style="text-align: center;"> INFORMATION DISCLOSURE STATEMENT BY APPLICANT </div> <div style="text-align: center; margin-top: 10px;"> <i>(use as many sheets as necessary)</i> </div>		<div style="text-align: right; margin-bottom: 5px;"> <i>Complete if Known</i> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td style="width: 50%;">10/026,662</td> </tr> <tr> <td>Filing Date</td> <td>December 27, 2001</td> </tr> <tr> <td>First Named Inventor</td> <td>HASSON, Jaime</td> </tr> <tr> <td>Group Art Unit</td> <td>2661</td> </tr> <tr> <td>Examiner Name</td> <td>Not yet known</td> </tr> <tr> <td>Attorney Docket Number</td> <td>P-4659-US</td> </tr> </table>		Application Number	10/026,662	Filing Date	December 27, 2001	First Named Inventor	HASSON, Jaime	Group Art Unit	2661	Examiner Name	Not yet known	Attorney Docket Number	P-4659-US
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Substitute for form 1449E/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/026,662</td> </tr> <tr> <td>Filing Date</td> <td>December 27, 2001</td> </tr> <tr> <td>First Named Inventor</td> <td>HASSON, Jaime</td> </tr> <tr> <td>Group Art Unit</td> <td>2661</td> </tr> <tr> <td>Examiner Name</td> <td>Not yet known</td> </tr> <tr> <td>Attorney Docket Number</td> <td>P-4659-US</td> </tr> </table>		Application Number	10/026,662	Filing Date	December 27, 2001	First Named Inventor	HASSON, Jaime	Group Art Unit	2661	Examiner Name	Not yet known	Attorney Docket Number	P-4659-US
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Filing Date	December 27, 2001														
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Examiner Name	Not yet known														
Attorney Docket Number	P-4659-US														
Sheet	2	of	2												

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
T.W	AC	ZHANG et al., "Multibit Oversampled Sigma - Delta A/D Converter with Nonuniform Quantisation", ELECTRONICS LETTERS, 14 MARCH 1991, UK, Vol. 27, No. 6, pp. 528-529	<input type="checkbox"/>
		<div style="border: 1px solid black; padding: 10px; margin: 0 auto; width: 80%;"> RECEIVED APR 16 2003 Technology Center 2800 </div>	<input type="checkbox"/>
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Examiner Signature	Date Considered 9/27/05
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Form PTO-1449

U.S. Department of Commerce,
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Atty. Docket No.

Serial No.

INFORMATION DISCLOSURE STATEMENT
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(Use several sheets if necessary)

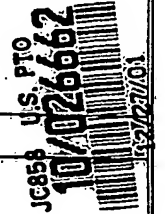
P-4659-US

Applicant

Jnime HASSON

Filing Date

Group



U.S. Patent Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

Foreign Patent Documents

*Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

OTHER ART

(Including Author, Title, Date, Pertinent Pages, Etc.)

*Examiner Initial	AA	J. Nieznanski, "Performance characterization of vector sigma-delta modulation", IECON '98, Proceedings of the 24th Annual Conference of the IEEE, vol. 1, pp. 531-536, 1998
T.W	AB	D.L. Neuhoft, "Polar quantization revisited", IEEE International Symposium on Information Theory, 1997 Proceedings, pp. 60, 1997
T.W	AC	N.O. Sokal, "RF Power Amplifiers, Classes A through S - How they operate, and when to use each", Electronics Industries Forum of New England, Professional Program Proceedings, pp. 179-183, 1997
T.W	AD	T. Yamaji, A. Yasuda, H. Tanimoto, Y. Suzuki, "A Digital-to-RF Converter Architecture Suitable for a Digital-to-RF Direct-Conversion Software Defined Radio Transmitter", IEICE Trans. Commun., vol. E83-B, No. 6, pp. 1254-1260, June 2000.

Examiner

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